Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:
Listing of Claims:

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1. (Previously presented) Process for separation of a glyoxal diacetal of formula (I)

in which R represents a linear or branched C_1 - C_4 alkyl group, from a crude mixture comprising said glyoxal diacetal and a glyoxal monoacetal of formula (II)

in which R is as defined above, wherein at least one step of countercurrentwise liquid-liquid extraction of said glyoxal diacetal is carried out using a solvent which is immiscible

with the reaction medium, in order to obtain, on the one hand, a light phase comprising said glyoxal diacetal and, on the other hand, a heavy phase including the other constituents of the crude mixture.

- 2. (Previously presented) Process according to Claim 1, wherein said crude mixture comprises predominantly a glyoxal diacetal of formula (I) as defined in Claim 1, a glyoxal monoacetal of formula (II) as defined in Claim 1, and water.
- 3. (Currently amended) Process according to Claim

 1 or Claim 2, characterized in that wherein the solvent is chosen from ethers, alkanes and aromatic hydrocarbons.
- 4. (Previously presented) Process according to claim 1, wherein the solvent is chosen from cyclohexane, nheptane and toluene.
- 5. (Previously presented) Process according to claim 1, wherein the solvent/crude mixture ratio by weight is between 0.3/1 and 5/1.
- 6. (Previously presented) Process according to claim 1, wherein the extraction is carried out at a temperature of approximately 10°C to 60°C, preferably at ambient temperature.

- 7. (Previously presented) Process according to claim 1, wherein the light phase comprising the glyoxal diacetal of formula (I) and the solvent is subjected to a separation, on conclusion of which said glyoxal diacetal is recovered.
- 8. (Previously presented) Process according to Claim 7, wherein this separation is carried out by distillation under reduced pressure.
- 9. (Previously presented) Process according to 7 or 8, wherein this separation is carried out at a temperature of between ambient temperature and approximately 120°C.
- 10. (Currently amended) Process according to any claim 1, wherein the solvent is recycled to the liquid-liquid extraction step.
- 11. (Previously presented) Process according to claim 1, wherein the crude mixture is obtained by an acetalization reaction of 40 to 75% by weight aqueous glyoxal with an alcohol of formula R-OH in which R is as defined in Claim 1, the R-OH/glyoxal molar ratio being between 10/1 and 50/1, preferably 10/1 to 30/1, in the presence of an acid catalyst, followed by the distillation of the reaction mixture obtained in order to remove the excess alcohol R-OH.

- 12. (Previously presented) Process according to claim 1, wherein, in the formulae (I) and (II), R is a $C_1\text{-}C_2$ alkyl group.
- 13. (Previously presented) Process according to Claim 12, wherein R is a methyl group.
- 14. (Previously presented) Process according to claim 1, wherein the alcohol is methanol.
- 15. (Previously presented) Process according to claim 1, wherein the crude mixture comprises predominantly 1,1,2,2-tetramethoxy-ethane (TME), dimethoxyethanal (DME) and water.
- 16. (Previously presented) Process according to claim 1, wherein said mixture comprises, as percentages by weight, approximately 25 to 60% of TME, approximately 7 to 35% of DME and approximately 20 to 50% of water.
- 17. (Previously presented) Process according to claim 1, wherein said mixture also comprises, as percentages by weight, approximately 0 to 15% of glyoxal, approximately 0 to 10% of methanol and approximately 0 to 5% of impurities.

- 18. (Previously presented) Process according to claim 11, wherein the glyoxal used in the acetalization reaction is concentrated to approximately 60 to 70%.
- 19. (Previously presented) Process according to Claim 18, wherein the glyoxal is concentrated from an aqueous solution.
- 20. (Previously presented) Process according to claim 11, wherein the acetalization reaction is carried out for a period of time of less than or equal to 1 h, preferably of less than or equal to 40 min.
- 21. (Previously presented) Process according to Claim 20, wherein the period of time of the reaction is less than or equal to 20 min.
- 22. (Previously presented) Process according to claim 11, wherein the acetalization reaction is carried out at a temperature of the order of 60°C to 140°C, preferably approximately 80°C to 130°C.
- 23. (Previously presented) Process according to Claim 22, wherein the temperature is of the order of 100 to 130°C.

- 24. (Previously presented) Process according to claim 11, wherein the acetalization reaction is carried out at a pressure of greater than or equal to atmospheric pressure.
- 25. (Previously presented) Process according to Claim 24, wherein the pressure is less than or equal to 15 bar.
- 26. (Previously presented) Process according to claim 1, wherein the acetalization reaction, the liquid-liquid extraction step and the recovery of the various constituents of the crude mixture are carried out continuously, the glyoxal, the glyoxal monoacetal, the alcohol R-OH and the extraction solvent being recycled.